12419000 SPOKANE RIVER NEAR POST FALLS, ID

 $LOCATION.--Lat\ 47^{\circ}42'11'', long\ 116^{\circ}58'37'', in\ SW^{1}/_{4}SW^{1}/_{4}SW^{1}/_{4}sec.4, T.50\ N., R.5\ W., Kootenai\ County, Hydrologic\ Unit\ 17010305, on\ right\ bank,\ 1\ mi\ downstream\ from\ powerplant\ of\ Washington\ Water\ Power\ Co.,\ 1.5\ mi\ southwest\ of\ Post\ Falls,\ and\ at\ mile\ 100.7.$

DRAINAGE AREA.--3,840 mi², approximately, of which about 122 mi² in the vicinity of Hayden Lake is noncontributing to this station.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to current year (prior to January 1913, monthly discharge only, published in WSP 870 and 1736). Prior to October 1949, published as "at Post Falls."

GAGE.--Water-stage recorder. Datum of gage is 2,050 ft, referred to originally accepted elevation of 2,157.40 ft for the U.S. Geological Survey bench mark in southeast corner of Idaho First National Bank Building (see WSP 882). Gage datum is 2,047.00 ft above sea level. Jan. 1, 1913, to Nov. 21, 1920, nonrecording gage, and Nov. 22, 1920, to Sept. 15, 1934, recording gage 0.6 mi upstream. From Sept. 16, 1934, to Nov. 15, 1949, recording gage 0.8 mi upstream. From Nov. 16, 1949, at present site. Datum of all gages prior to Sept. 30, 1964, 50 ft lower.

REMARKS.--No estimated daily discharges. Records good except for daily discharges December to July, which are fair. Flow regulated by dam at Post Falls and affected by storage in Coeur d'Alene Lake (sta 12415500).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 50,100 ft³/s, when recorder was not operating, Dec. 25, 1933, (determined from unpublished records collected by Washington Water Power Co. for station at Liberty Bridge); minimum, 65 ft³/s July 25, 30, 1973; minimum gage height, 4.68 ft, July 20, 21, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,300 ft³/s Apr. 22, gage height, 20.67 ft; minimum daily, 258 ft³/s Aug. 31.

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12419000 SPOKANE RIVER NEAR POST FALLS, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1973-1981, July 1989 to current year.

PERIOD OF DAILY RECORD .--

WATER TEMPERATURE: May to September 1998, May to September 1999 (discontinued). SPECIFIC CONDUCTANCE: February 1999 to current year.

INSTRUMENTATION .-- Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.WATER TEMPERATURE: Maximum, 27.1 °C July 29, 1998.
SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 57 microsiemens/cm Aug 30 to Sept. 4, 2000; minimum recorded daily mean, 42 microsiemens/cm May 6-8, June 14-15. 2000.

EXTREMES FOR CURRENT YEAR.-- WATER TEMPERATURE: Maximum recorded, 26.0 °C Aug. 9. SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 57 microsiemens/cm Aug 30 to Sept. 4; minimum recorded daily mean, 42 microsiemens/cm May 6-8, June 14-15.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE NOV	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE - CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
15	0950	2790	46	7.5	8.0	10.5				
JAN 03	1005	5990	47	7.5	0.0	5.0				
FEB 17	1430	7120	49	7.0	1.0	3.5				
MAR 28	1520	11300	56	7.5	7.5	3.8	.6	12.9	105	K2
MAY _11	0940	18300	46	7.1	3.5	9.5	.7	12.1	114	K2
JUN _12	1015	7700	45	7.4	12.0	14.3	. 4	8.3	87	K8
JUL 05	1200	3470	47	6.9	22.0	19.0	. 4	10.5	121	K13
AUG _09	1540	739	52	7.4	34.0	25.7	.7			56
SEP 06	1000	1040	58	7.4	14.0	18.7	.5	8.9	101	K14
DATE NOV	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)
15 JAN		19	5.1	1.5	1.6					<.3
03 FEB		20	5.3	1.6						
17 MAR		20	5.2	1.6						
28 MAY	K4	21	5.5	1.7			24	0	19	
11 JUN	K2									
12 JŲ <u>L</u>	24									
05 AUG	84									
09 SEP	30									
06	47	21	5.6	1.6	2.4	.8	25	0	20	4.1
DATE	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
NOV 15	RIDE, DIS- SOLVED (MG/L AS CL)	RIDE, DIS- SOLVED (MG/L AS F)	DIS- SOLVED (MG/L AS SIO2)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N)	GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHORUS TOTAL (MG/L AS P)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P)	DIS- SOLVED	WATER UNFLTRD TOTAL (UG/L AS CD)
NOV 15 JAN 03	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS TOTAL (MG/L AS P) (00665)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	DIS- SOLVED (UG/L AS CD) (01025)	WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
NOV 15 JAN 03 FEB 17	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHORUS TOTAL (MG/L AS P) (00665)	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	DIS- SOLVED (UG/L AS CD) (01025)	WATER UNFLTRD TOTAL (UG/L AS CD) (01027)
NOV 15 JAN 03 FEB 17 MAR 28	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 9.0	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08	PHORUS TOTAL (MG/L AS P) (00665) .017	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	DIS- SOLVED (UG/L AS CD) (01025) <1 <1	WATER UNFLTRD TOTAL (UG/L AS CD) (01027) <1 <1
NOV 15 JAN 03 FEB 17 MAR 28 MAY 11	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 9.0	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .047	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08	PHORUS TOTAL (MG/L AS P) (00665) .017 .011	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .007 .004	DIS- SOLVED (UG/L AS CD) (01025) <1 <1	WATER UNFLITRD TOTAL (UG/L AS CD) (01027) <1 <1 <1
NOV 15 JAN 03 FEB 17 MAR 28 MAY 11 JUN 12	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950)	DIS- SOLVED (MG/L AS SIO2) (00955) 9.0	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .047 .066	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08 .2 E.09	PHORUS TOTAL (MG/L AS P) (00665) .017 .011 .008	PHORUS ORTHO, DIS-, SOLVED (MG/L AS P) (00671) .007 .004 .004	DIS- SOLVED (UG/L AS CD) (01025) <1 <1	WATER UNFLITRD TOTAL (UG/L AS CD) (01027) <1 <1 <1
NOV 15 JAN 03 FEB 17 MAR 28 MAY 11 JUN 12 JUL 05	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1	DIS- SOLVED (MG/L AS SIO2) (00955) 9.0 	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .047 .066 .049 .077	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .021 .006 <.002	GER, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08 .2 E.09 .2	PHORUS TOTAL (MG/L AS P) (00665) .017 .011 .008 .009 <.008	PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671) .007 .004 .004 .002	DIS- SOLVED (UG/L AS CD) (01025) <1 <1 <1	WATER UNFLITRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 <1 <
NOV 15 JAN 03 FEB 17 MAR 28 MAY JUN JUN JUN JUL JUL JUL JUL JUL O5 AUG	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1	DIS- SOLVED (MG/L AS SIO2) (00955) 9.0 	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .047 .066 .049 .077 .021	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .001 .006 <.002 .007	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08 .2 E.09 .2 .1	PHORUS TOTAL (MG/L AS P) (00665) .017 .011 .008 .009 <.008 E.007	PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671) .007 .004 .004 .002 .003	DIS- SOLVED (UG/L AS CD) (01025) <1 <1 <1	WATER UNFLITRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 <1 <
NOV 15 JAN 03 FEB 11 MAR 28 MAY JUL JUL 05 AUG	RIDE, DIS- SOLVED (MG/L AS CL) (00940)	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1	DIS- SOLVED (MG/L AS SIO2) (00955) 9.0 	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .047 .066 .049 .077 .021	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .006 <.002 .007 .006 <.002	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08 .2 E.09 .2 .1 E.1	PHORUS TOTAL (MG/L AS P) (00665) .017 .011 .008 .009 <.008 E.007	PHORUS ORTHO, DIS- SOLVED (MG/L AGO/L .007 .004 .004 .002 .003 <.001	DIS- SOLVED (UG/L AS CD) (01025) <1 <1 <1	WATER UNFLITRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 <1 <
NOV 15 JAN 03 FEB 117 MAR 28 MAY 11 JUL US AUG 09	RIDE, DIS- SOLVED (MG/L) AS CL) (00940) <.3 1.5	RIDE, DIS- SOLVED (MG/L) AS F1 (00950) <.1 <.1 IRON, DIS- SOLVED (MG/L) AS F2 (MG/L)	DIS- SOLVED (MG/L (MG/L (MG/S) (00955) 9.0 8.6 LEAD, DIS- SOLVED (UG/L AS PB) (01049)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .047 .066 .049 .077 .021 .020 .038 .10 .18 LEAD, TOTAL RECOYLEAD (MG/L AS N) (MG/L AS N)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .001 .006 <.002 .007 .006 <.002 .007 .006 .002 .009 .013 MANGA- NESE, READU- ERABUE ERABUE (UG/L AS MM) (01055)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08 .2 E.09 .2 .1 E.1 .2 .1 MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	PHORUS TOTAL (MG/L AS P) (00665) .017 .011 .008 .009 <.008 E.007 E.004 E.006 .009 ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	PHORUS ORTHO, DIS- ORTHO, DIS- SOLVED (MG/L AS P) (00671) .007 .004 .002 .003 .001 .002 .001 .001 ZINC, TOTAL RECOV- ERABLE (MG/L AS ZN) (01092)	DIS- SOLVED (UG/L AS CD) (01025) <1 <1 <1 <1	WATER UNFLIRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <
NOV 15 JAN 08 FIB 17 MAP 28 MAY 11 05 05 NOV 06	RIDE, DIS- SOLVED (MG/L) (3 1.5	RIDE, DIS- SOLVED (MG/L) AS F) (00950) <.1 <.1 IRON, DIS- SOLVED (GG/L) (01046)	DIS- SOLVED (MG/L) (MG/S) (00955) 9.0 8.6 LEAD, DIS- SOLVED (10149) <1	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .047 .066 .049 .077 .021 .020 .038 .10 .18 LEAD, TOTAL RECAY ERABLE (UG/L AS PB) (01051) <1.0	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .001 .006 <.002 .007 .006 <.002 .007 .006 .002 .009 .013 MANGA- NESE, REABLE ERABLE ERABLE (UG/L AS MM) (01055)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08 .2 E.09 .2 .1 E.1 .2 .1 MANGA- NESE, SOLVED (UG/L AS MM) (01056)	PHORUS TOTAL (MG/L AS P) (00665) .017 .011 .008 .009 <.008 E.007 E.004 E.006 .009 ZINC, DIS- SOLVED (UGL1 AS ZN) (01090)	PHORUS ORTHO, DIS- ORTHO, DIS- SOLVED (MG/L AS P) (00671) .007 .004 .002 .003 <.001 .002 <.001 .001 ZINC, TOTAL REPAY EXAMPLE (MG/L AS ZN) (01092) 47.8	DIS- SOLVED (UG/L AS CD) (01025) <1 <1 <1 SEDI- MENT, SUS- PENDED (MG/L)	WATER UNFLIRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 <1 SEDI- MENT, CHARGE, PENDED
NOV 15 JAN 03 FEB 177 28 28 11 12 05 309 SEP 06 DATE NOV 15 13 13 14 15 15 15 15 16 17 18	RIDE, DIS- SOLVED (MG/L) (3 1.5	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 <.1 IRON, DIS- SOLVED (UG/L AS FE) (01046) <10	DIS- SOLVED (MG/L) (MG/S) (00955) 9.0 8.6 LEAD, DIS- SOLVED (UG/L) AS PB) (01049)	GEN, NO2+NO3 DIS- DIS- SOLVED (MG/L AS N) (00631) .047 .066 .049 .077 .021 .020 .038 .10 .18 LEAD, TOTAL RECOVE (MG/L AS PB) (01051) <1.0 1.0	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .021 .006 <.002 .007 .006 <.002 .001 MANGA- NESE, TOTAL AS NBSS (UG/L) AS MOSS) 3.2 4.7	GEN, AMMONTA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08 .2 E.09 .2 .1 E.1 .2 .1 MANGA-NESE, DISS, SOUYED (UG/L) AS N) (01056) 1 1	PHORUS TOTAL (MG/L (AS P) (00665) .017 .011 .008 .009 <.008 E.007 E.004 E.006 .009 ZINC, DIS- SOLVED (UGLL AS ZN) (01090) 51 70	PHORUS ORTHO, DIS- ORTHO, DIS- SOLVED (MG/L AS P) (00671) .007 .004 .002 .003 <.001 .002 <.001 .001 ZINC TOTAL RECOV- ERABLE (UG/L) AS ZN (101092) 47.8 63.9	DIS- SOLVED (UG/L AS CD) (01025) <1 <1 <1 SEDI- MENT, SUS- PENDED (MG/L)	WATER UNFLIRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)
NOV 15 JAN 03 FEB 17 MAR 28 MAY 11 JUL US 30 SEP 06 DATE NOV 15 JAN 17 JAN 18 JAN 19 JAN 19 JAN 19 JAN 19 JAN 19 JAN 19	RIDE, DIS- SOLVED (MG/L) (3 1.5	RIDE, DIS- SOLVED (MG/L) AS F) (00950) <.1 <.1 IRON, DIS- SOLVED (GG/L) (01046)	DIS- SOLVED (MG/L) (MG/S) (00955) 9.0 8.6 LEAD, DIS- SOLVED (AC/L)	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .047 .066 .049 .077 .021 .020 .038 .10 .18 LEAD, TOTAL RECAY ERABLE (UG/L AS PB) (01051) <1.0	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .001 .006 <.002 .007 .006 <.002 .007 .006 .002 .009 .013 MANGA- NESE, REABLE ERABLE ERABLE (UG/L AS MM) (01055)	GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08 .2 E.09 .2 .1 E.1 .2 .1 MANGA- NESE, SOLVED (UG/L AS MM) (01056)	PHORUS TOTAL (MG/L AS P) (00665) .017 .011 .008 .009 <.008 E.007 E.004 E.006 .009 ZINC, DIS- SOLVED (UGL1 AS ZN) (01090)	PHORUS ORTHO, DIS- ORTHO, DIS- SOLVED (MG/L AS P) (00671) .007 .004 .002 .003 .001 .002 .001 .001 ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092) 47.8 63.9 74.8	DIS- SOLVED (UG/L AS CD) (01025) <1	WATER UNFLIRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 SEDI- MENT, DIS- CHARGE, PENDED (7/DAY) (80155)
NOV 15 JAN 03 FEET. 28 MAP. 11 28 11 12 12 05 AUG. 09 SEP. 06	RIDE, DIS- SOLVED (MG/L) (3 1.5	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 <.1 IRON, DIS- SOLVED (UG/L AS FE) (01046) <10	DIS- SOLVED (MG/L) (MG/S) (00955) 9.0 8.6 LEAD, DIS- SOLVED (UG/L) AS PB) (01049)	GEN, NO2+NO3 DIS- DIS- SOLVED (MG/L AS N) (00631) .047 .066 .049 .077 .021 .020 .038 .10 .18 LEAD, TOTAL RECOVE (MG/L AS PB) (01051) <1.0 1.0	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .021 .006 <.002 .007 .006 <.002 .001 MANGA- NESE, TOTAL AS NBSS (UG/L) AS MOSS) 3.2 4.7	GEN, AMMONTA + ORGANIC TOTAL (MG/L AS N) (00625) .1 E.08 .2 E.09 .2 .1 E.1 .2 .1 MANGA-NESE, DISS, SOUYED (UG/L) AS N) (01056) 1 1	PHORUS TOTAL (MG/L (AS P) (00665) .017 .011 .008 .009 <.008 E.007 E.004 E.006 .009 ZINC, DIS- SOLVED (UGLL AS ZN) (01090) 51 70	PHORUS ORTHO, DIS- ORTHO, DIS- SOLVED (MG/L AS P) (00671) .007 .004 .002 .003 <.001 .002 <.001 .001 ZINC TOTAL RECOV- ERABLE (UG/L) AS ZN (101092) 47.8 63.9	DIS- SOLVED (UG/L AS CD) (01025) <1 <1 <1 <-1 SEDI- MENT, SEDIS- PENDED (MG/L) (80154) 2	WATER UNFLIRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 <1 <1 <1 <-1 <-1 <-1 <-1 <-
NOV 15 JAN 03 FEET 28 AND 11 28 11 JUL 05 29 20 30	RIDE, DIS- SOLVED (MG/L) (3 1.5	RIDE, DIS- SOLVED (MG/L) AS F) (00950) <.1 <.1 IRON, DIS- SOLVED (UG/L) AS FE) (01046) <10 E5 E6	DIS- SOLVED (MG/L AS SIO2) (00955) 9.0 8.6 LEAD, DIS- SOLVED (UG/L AS PB) (01049) <1 <1 <1 <1	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .047 .066 .049 .077 .021 .020 .038 .10 .18 LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051) <1.0 .1.0 <1	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .021 .006 <.002 .007 .006 <.002 .009 .013 MANGA- NESEL BECOV-	GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) 1 E.08 .2 E.09 .2 .1 E.1 .2 .1 MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) 1 1 .1	PHORUS TOTAL (MG/L AS P) (00665) .017 .011 .008 .009 <.008 E.007 E.004 E.006 .009 ZINC, DIS- SOLVED (UG/L AS ZN) (01090) 51 70 74 81	PHORUS ORTHO, DIS- SOLVED (MG/L) .007 .004 .004 .002 .003 .001 .002 .001 .001 ZINC, TOTIAL RECOV- RECOV- RECOV- RECOV- RECOV- RECOV- RECOV- RECOV- AS ZN) (01092) 47.8 63.9 74.8 77.4	DIS- SOLVED (UG/L) AS CD) (01025) <1 <1 <1 <	WATER UNFLIRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 <1 <1 <1 <1
NOV 15 JAN 03 FEET. 28 MAP. 11 28 11 12 12 05 AUG. 09 SEP. 06	RIDE, DIS- DIS- SOLVED (MG/L) AS CL) (00940) <.3 1.5 IRON, TOTAL RECOV- ERABLE (UG/L) AS FE) (01045) 21.3 40.8 36.3 93.2	RIDE, DIS- SOLVED (MG/L) AS F) (00950) <.1 <.1 IRON, DIS- SOLVED (UG/L) AS FE) (01046) <10	DIS- SOLVED (MG/L A/S SIO2) (00955) 9.0 8.6 LEAD, DIS- SOLVED (UG/L AS PB) (01049) <1 <1 <1 <1	GEN, NO2+NO3 DIS- NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .021 .006 <.002 .007 .006 <.002 .013 MANGA- NESE TOTAL RECOV- ERABLE (UG/L AS MN) (01055) 3.2 4.7 4.1 4.4	GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) 1 E.08 .2 E.09 .2 .1 E.1 .2 .1 MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) 1 1 1	PHORUS TOTAL (MG/L AS P) (00665) .017 .011 .008 .009 <.008 E.007 E.004 E.006 .009 ZINC, DIS- SOLVED (UG/L AS ZN) (01090) 51 70 74 81	PHORUS ORTHO, DIS- ORTHO, DIS- SOLVED (MG/L AS P) (00671) .007 .004 .002 .003 <.001 .002 <.001 .001 ZINC, TOTAL, RECOV- ERABLE (UG/L AS ZN) (01092) 47.8 63.9 74.8 77.4	DIS- SOLVED (UG/L AS CD) (01025) <1 <1 <1 <-1 SEDI- MENT, SUNCE PRIVER (MC/L) (80154) 2 2 2 2	WATER UNFLIRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
NOV 15 JAN 03 FEET AR 28 AR 11 JUL JUL O5 AUG O9 SEP O6 DATE NOV 15 JAN 03 FEB 17 AUG U1 U1 U1 U2 U2 U3 V3 V4 V4 V5 V6 V6 V7 V7 V7 V8	RIDE, DIS- DIS- SOLVED (MG/L) AS CL) (00940) <.3 1.5 IRON, TOTAL RECOV- ERABLE (UG/L) AS FE) (01045) 21.3 40.8 36.3 93.2	RIDE, DIS- SOLVED (MG/L) AS F) (00950) <.1 <.1 IRON, DIS- SOLVED (UG/L) AS FE) (01046) <10 E5 E6	DIS- SOLVED (MG/L AS SIO2) (00955) 9.0 8.6 LEAD, DIS- SOLVED (UG/L AS PB) (01049) <1 <1 <1 <1	GEN, NO2+NO3 DIS- NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .021 .006 <.002 .007 .006 <.002 .009 .013 MANGA- NESEL BECOV-	GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) 1 E.08 .2 E.09 .2 .1 E.1 .2 .1 MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056) 1 1 1	PHORUS TOTAL (MG/L AS P) (00665) .017 .011 .008 .009 <.008 E.007 E.004 E.006 .009 ZINC, DIS- SOLVED (UG/L AS ZN) (01090) 51 70 74 81	PHORUS ORTHO, DIS- SOLVED (MG/L) .007 .004 .004 .002 .003 .001 .002 .001 .001 ZINC, TOTIAL RECOV- RECOV- RECOV- RECOV- RECOV- RECOV- RECOV- RECOV- AS ZN) (01092) 47.8 63.9 74.8 77.4	DIS- SOLVED (UG/L) AS CD) (01025) <1 <1 <1 <1 SEDI- MENT, SSUS PENDED (MG/L) (80154) 2 2 2 2 1	WATER UNFLIRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1
NOV 155 JAN 108 03 FEB 17 28 28 11 12 055 DATE DATE NOV 15 17 28 17 28 17 28 17 28 28 17 28 28 28 29 21 21 22 31	RIDE, DIS- SOLVED (MG/L) AS CL) (00940) <.3 1.5 IRON, TOTAL RECOV- ERABLE (UG/L) AS FE) (01045) 21.3 40.8 36.3 93.2	RIDE, DIS- SOLVED (MG/L AS F) (00950) <.1 <.1 IRON, DIS- SOLVED (UG/L AS FE) (01046) <10 E5 E6 19	DIS- SOLVED (MG/L AS SIO2) (00955) 9.0 8.6 LEAD, DIS- SOLVED (UG/L AS PB) (01049) <1 <1 <1 < < < 8.6	GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631) .047 .066 .049 .077 .021 .020 .038 .10 .18 LEAD, TOTAL PECOV-ERABLE (MG/L) AS PB) (01051) <1.0 <1 1.0 <1 1.4	GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608) <.002 .021 .006 <.002 .007 .006 <.002 .009 .013 MANGA- NESE TOTAL AS MN) (01055) 3.2 4.7 4.1 4.4	GEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625) 1 E.08 .2 E.09 .2 .1 E.1 .2 .1 MANGA-NESS, SOLVED (UG/L AS MN) (01056) 1 1 .2 .1 MANGA-NESS, SOLVED (UG/L AS MN) (01056)	PHORUS TOTAL (MG/L (MG/L AS P) (00665) .017 .011 .008 .009 <.008 E.007 E.004 E.006 .009 ZINC, DIS- SOLVED (UG/L AS ZN) (01090) 51 70 74 81	PHORUS ORTHO, DIS- SOLVED (MG/L) .007 .004 .004 .002 .003 .001 .002 .001 .001 ZINC, TOTAL READLE (UG/L) AS ZN) (01092) 47.8 63.9 74.8 77.4	DIS- SOLVED (UG/L AS CD) (01025) <1 <1 <1 <-1 SEDI- MENT, SUNCE PRIVER (MC/L) (80154) 2 2 2 2	WATER UNFLIRD TOTAL (UG/L AS CD) (01027) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1

E Positive detection but below stated detection limit. K Results based on counts outside ideal colony range.

WATER TEMPERATURE, DEGREES CELSIUS, MAY TO SEPTEMBER 2000

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	MAY		JUNE		JULY		AUGUST		SEPTE	MBER
1			14.5	13.0	20.5	19.5	25.0	24.0	21.0	20.0
2			14.5	14.0	20.5	20.0	25.5	24.0	20.0	19.5
3			15.5	14.5	20.0	19.5	25.5	24.5	20.5	19.0
4	9.5	9.5	16.0	15.0	19.5	18.5	25.5	24.5	20.0	19.0
5	9.5	9.0	16.5	15.5	18.5	18.0	25.5	24.5	19.5	18.5
6	10.0	9.0	16.5	16.5	19.0	18.5	25.5	24.5	19.0	18.5
7	10.5	9.5	16.5	16.0	19.0	18.5	25.5	24.5	18.5	18.0
8	10.5	9.5	16.5	15.0	19.5	18.5	25.5	24.5	18.0	17.5
9	10.5	10.0	15.5	15.0	20.0	19.0	26.0	24.5	17.5	17.0
10	10.5	9.5	15.5	14.5	20.0	19.0	25.5	24.5	17.0	17.0
11	10.0	9.5	14.5	14.0	21.0	20.0	25.0	24.0	17.5	17.0
12	10.0	9.5	14.5	14.5	21.0	20.0	25.0	23.5	17.5	17.0
13	11.0	9.5	15.0	14.5	21.5	20.5	24.5	23.5	18.0	17.0
14	11.0	10.0	15.0	15.0	22.0	21.0	24.0	23.0	18.5	17.5
15	12.0	10.5	15.5	15.0	21.0	20.0	24.0	23.0	18.5	18.0
16	12.0	10.5	15.5	15.0	22.0	20.5	24.0	22.5	19.0	18.5
17	12.0	10.5	16.0	15.5	22.5	20.5	24.0	22.0	19.0	18.5
18	11.5	10.5	16.0	16.0	23.0	21.5	23.5	22.0	19.0	18.5
19	11.0	10.5	16.5	16.0	22.5	21.5	22.5	21.5	19.0	18.5
20	12.0	11.0	16.5	16.0	23.0	21.0	23.0	21.0	18.5	18.0
21	12.5	11.5	17.0	16.5			23.0	21.0	18.0	17.0
22	13.5	12.0	17.5	17.0			23.0	21.0	17.0	15.5
23	13.5	12.5	17.5	17.0			23.5	21.0	15.5	15.0
24	13.5	12.5	17.5	17.0			23.5	21.5	15.0	14.5
25	14.0	13.0	17.5	17.0	24.0	22.5	23.5	21.5	15.5	14.5
26	13.5	13.0	18.5	17.0	24.0	22.5	23.0	21.0	15.5	15.0
27	14.0	13.0	19.0	17.5	23.5	22.5	22.5	21.0	15.5	15.0
28	14.0	13.0	19.0	18.0			22.5	20.5	15.5	15.0
29	14.0	13.0	19.5	18.5			22.0	20.0	15.5	15.0
30	14.0	13.5	19.5	19.0			22.5	20.5	15.5	15.5
31	14.0	13.0					21.5	20.0		
MONTH			19.5	13.0			26.0	20.0	21.0	14.5

	SPECIFIC	CONDUCTA	NCE, MICR	OSIEMENS A		REES CELSI LY MEAN VA		YEAR OCT	DBER 1999	TO SEPTEM	BER 2000	
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									44	44	48	57
2									43	44	49	57
3									43	44	49	57
4								44	43	44	50	57
5								44	43	44	50	55
6								42	43	44	50	54
7								42	43	44	50	55
8								42	43	44	51	55
9								43	43	45	51	54
10								43	43	45	51	52
11								43	43	45	51	51
12								43	43	45	51	50
13								43	43	45	51	51
14								43	42	46	51	51
15								43	42	49	51	50
16								43	43	50	51	50
17								43	43	50	53	50
18								43	43	48	54	50
19								44	43	48	54	50
20								43	43	50	54	50
21								43	43		55	50
22								43	43		56	50
23								43	43		55	50
24								43	43		55	50
25								43	43	48	55	50
26								43	43	48	55	50
27								43	43	48	56	50
28								43	44		56	50
29								43	44		56	50
30								43	44		57	50
31								43			57	
MEAN									43		53	52
MAX									44		57	57
MIN									42		48	50